



REPLACEMENT SHEET

09/668,801
2115

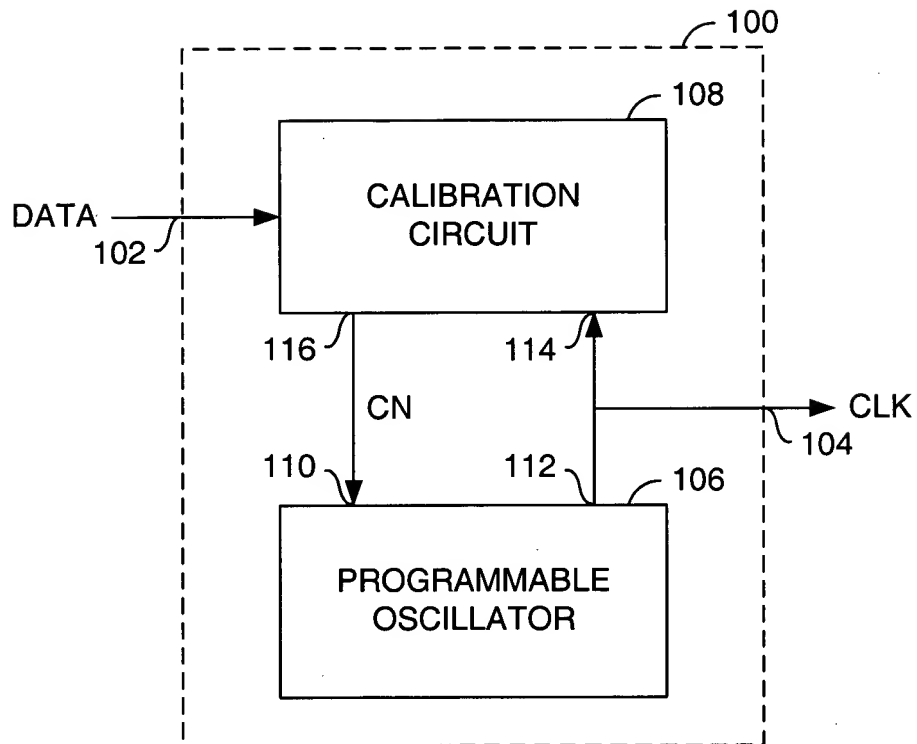


FIG. 1

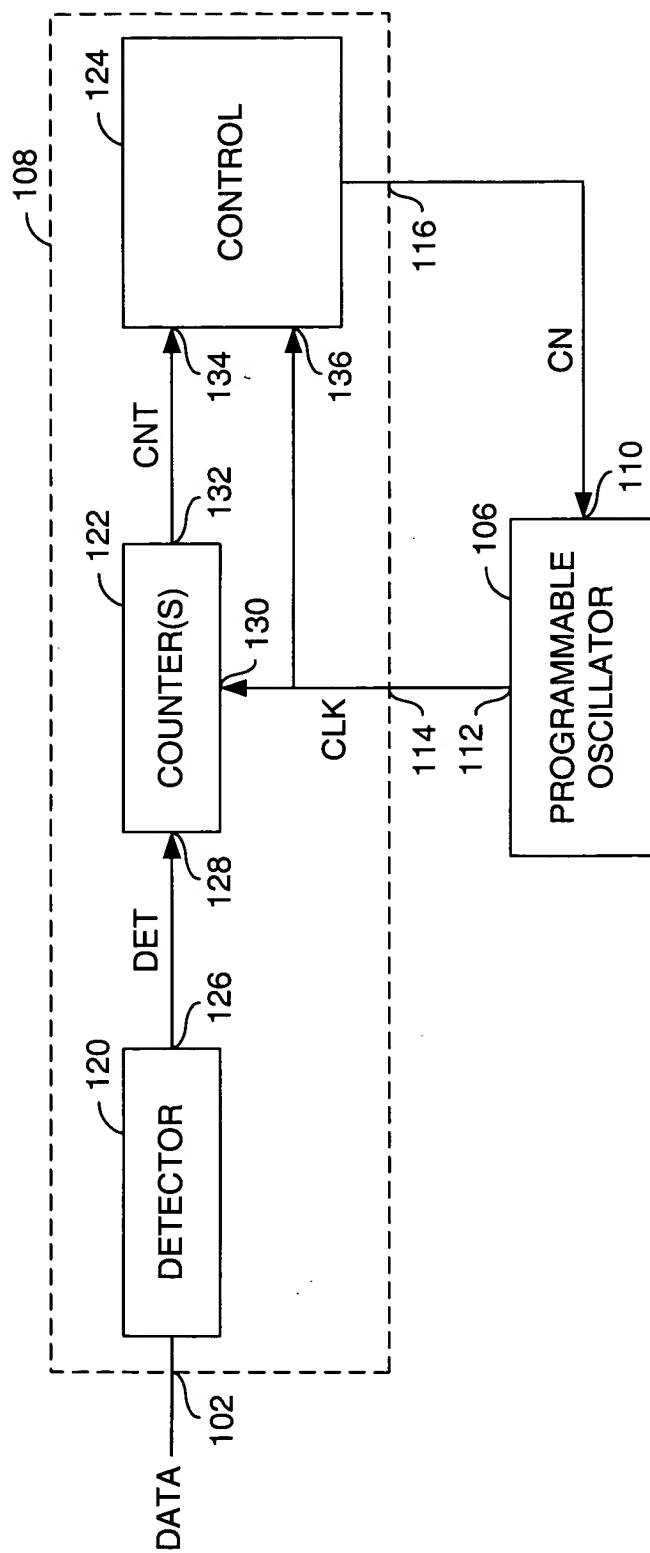


FIG. 2



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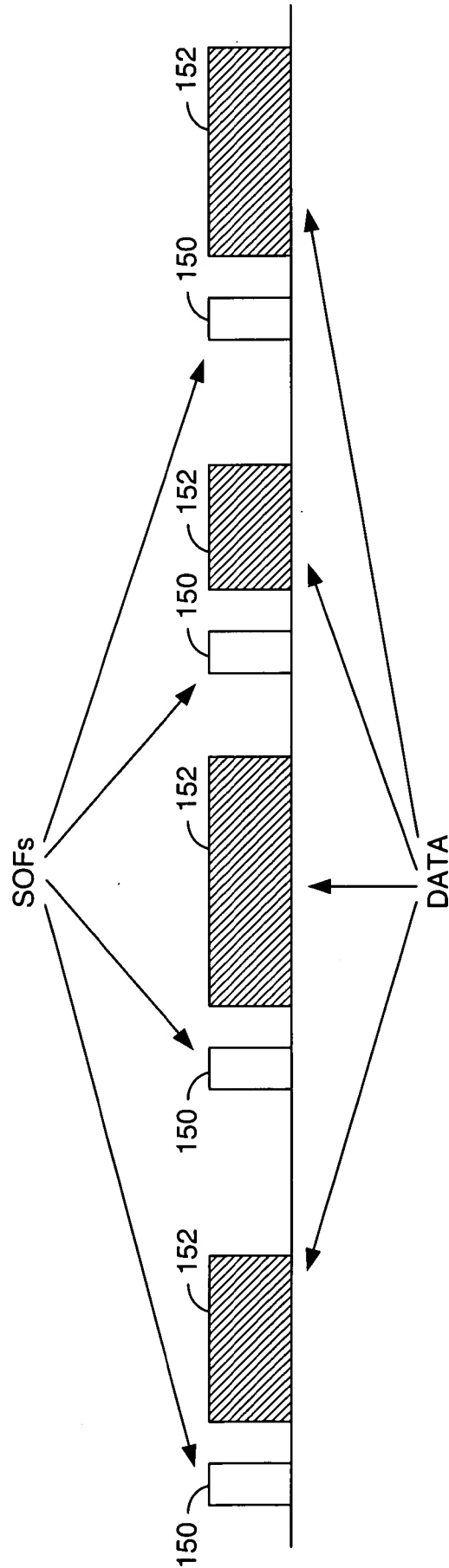


FIG. 3



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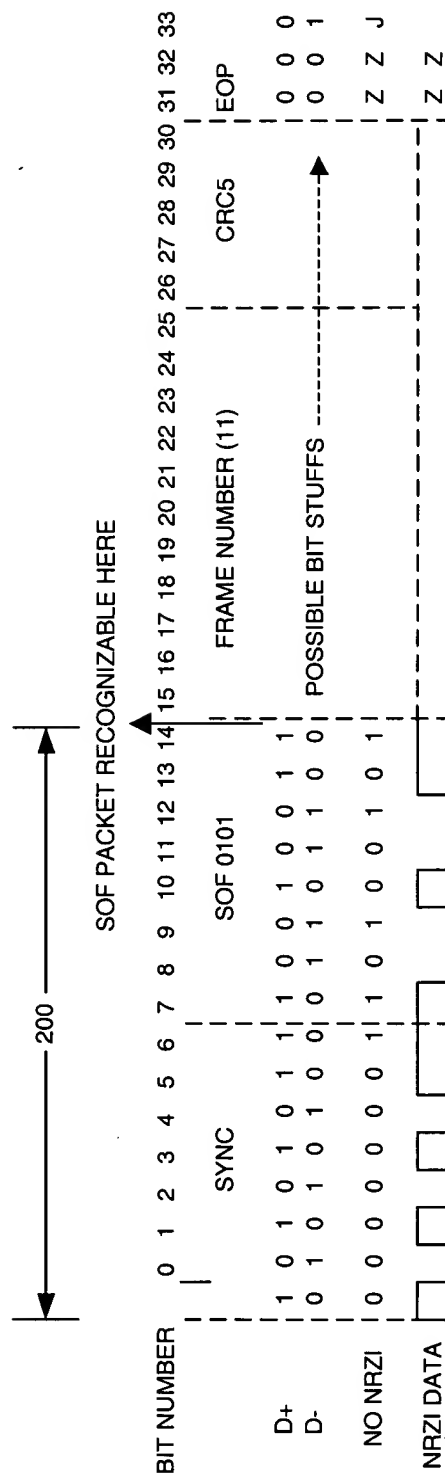


FIG. 4



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Jitter Errors									
SOF Detect		175 ns		Synchronization uncertainty					
Osc. Jitter		3 ns		Host error beyond +/-0.05% accuracy					
Frame Error		90 ns							

Clk: 24 MHz									
Initial Clock Err		Frame Time (us)	Includes Osc Jitter		Min Count	Max Count	ClkMinRange		ClkMaxRange
		Nominal Time	Min Time	Max Time					
INITIAL ERROR	0.00%	1000000	999732	1000268	23993	24007	23.986	24.000	24.014
	0.10%	1000000	999732	1000268	23969	24031	23.962	23.976	24.038
	0.20%	1000000	999732	1000268	23945	24055	23.938	23.952	24.062
	0.40%	1000000	999732	1000268	23897	24103	23.890	23.904	24.110
	0.60%	1000000	999732	1000268	23849	24151	23.842	23.856	24.158
	0.80%	1000000	999732	1000268	23801	24199	23.794	23.808	24.206
	1.00%	1000000	999732	1000268	23753	24247	23.746	23.760	24.255
	2.00%	1000000	999732	1000268	23513	24487	23.506	23.520	24.495
	3.00%	1000000	999732	1000268	23273	24727	23.266	23.280	24.735
	4.00%	1000000	999732	1000268	23033	24967	23.026	23.040	24.975
	5.00%	1000000	999732	1000268	22793	25207	22.786	22.800	25.215
	10.00%	1000000	999732	1000268	21594	26408	21.587	21.601	26.416
	20.00%	1000000	999732	1000268	19194	28808	19.188	19.200	28.799
	30.00%	1000000	999732	1000268	16795	31209	16.790	16.801	31.218
	40.00%	1000000	999732	1000268	14396	33610	14.391	14.401	33.620
	50.00%	1000000	999732	1000268	11996	36010	11.992	12.000	36.021
	60.00%	1000000	999732	1000268	9597	38411	9.593	9.601	38.422
	70.00%	1000000	999732	1000268	7198	40811	7.195	7.201	40.823

OSC TRIM Values

Gain Error

12 %

24 MHz @ Clock

Trimmed Step Sizes

Min Step

0.000 MHz

0.0132 MHz

Typ Step

0.015

0.015 MHz

0.0150 MHz

Max Step

0.000 MHz

0.0168 MHz

Linearity Error:

0.75 LSB

POST-TUNE ERROR

Ideal

Ideal

TuneAmount

TuneCounts

Post - MIN Tuning

TuneCounts

MAX Tuning

Max Error...

AveMin

AveMax

MIN

Typ-Min

%

Typ-Max

%

MAX

Typ-Min

%

Typ-Max

%

MIN

MAX

0.007

-0.007

0

23.976

-0.1%

24.013

0.1%

0

23.987

-0.1%

24.024

0.1%

0.10%

0.10%

0.031

-0.031

2

23.978

-0.1%

24.023

0.1%

-2

23.977

-0.1%

24.022

0.1%

0.09%

0.09%

0.055

-0.055

4

23.980

-0.1%

24.032

0.1%

-4

23.968

-0.1%

24.020

0.1%

0.13%

0.13%

0.103

-0.103

7

23.972

-0.1%

24.035

0.1%

-7

23.965

-0.1%

24.028

0.1%

0.14%

0.14%

0.151

-0.151

10

23.964

-0.2%

24.037

0.2%

-10

23.963

-0.2%

24.036

0.2%

0.15%

0.15%

0.199

-0.199

13

23.955

-0.2%

24.039

0.2%

-13

23.961

-0.2%

24.045

0.2%

0.19%

0.19%

0.247

-0.247

16

23.947

-0.2%

24.042

0.2%

-16

23.958

-0.2%

24.053

0.2%

0.22%

0.22%

0.487

-0.487

32

23.918

-0.3%

24.071

0.3%

-32

23.929

-0.3%

24.082

0.3%

0.34%

0.34%

0.727

-0.727

48

23.889

-0.5%

24.099

0.4%

-48

23.900

-0.4%

24.111

0.5%

0.46%

0.46%

0.967

-0.967

64

23.861

-0.6%

24.128

0.5%

-64

23.872

-0.5%

24.140

0.6%

0.58%

0.58%

1.207

-1.207

80

23.832

-0.7%

24.157

0.7%

-80

23.843

-0.7%

24.169

0.7%

0.70%

0.70%

2.406

-2.406

160

23.689

-1.3%

24.301

1.3%

-161

23.683

-1.3%

24.301

1.3%

1.29%

1.32%

4.806

-4.808

320

23.402

-2.5%

24.589

2.5%

-321

23.394

-2.5%

24.589

2.5%

2.49%

2.53%

7.205

-7.209

480

23.116

-3.7%

24.877

3.7%

-481

23.106

-3.7%

24.879

3.7%

3.68%

3.72%

9.604

-9.610

640

22.829

-4.9%

25.165

4.9%

-641

22.819

-4.9%

25.169

4.9%

4.88%

4.92%

12.004

-12.010

800

22.542

-6.1%

25.453

6.1%

-801

22.530

-6.1%

25.457

6.1%

6.08%

6.13%

14.403

-14.411

960

22.256

-7.3%

25.741

7.3%

-961

22.242

-7.3%

25.747

7.3%

7.27%

7.32%

16.802

-16.811

1120

21.969

-8.5%

26.030

8.5%

-1121

21.954

-8.5%

26.036

8.5%

8.46%

8.53%

FIG. 5